

Application Number: 10/056,297
Amendment Dated: September 21, 2005
Reply to Office Action of June 22, 2005

Please amend this application as follows:

In the Claims:

Please amend Claims 1-19 as follows (the changes in these Claims are shown with ~~strikethrough~~ for deleted matter and underlines for added matter). A complete listing of the claims with proper claim identifiers is set forth below.

1. (Currently Amended): A laser arbor for a saw having a spindle that rotates a saw blade relative to a non-rotating portion of the saw, the laser arbor comprising:

a housing secured to the spindle on the laser arbor;

a ~~laser light~~ disposed at least in part within the housing; and

a circuit electrically connected to the laser for providing power to the laser, the circuit providing power from the ~~power voltage source, which~~ that includes a portion secured to the non-rotating portion of the saw, wherein electric current to power the ~~laser light is generated on the spindle and the spindle has no electrical connections with the non-rotating portion of the saw.~~

2. (Currently Amended) The laser arbor for a saw having a spindle of claim 1 wherein the circuit further comprises a generator having a rotor associated with the spindle and a stator associated with the non-rotating portion of the saw, whereby ~~electrical current energy~~ is generated as the spindle rotates the rotor relative to the stator.

3. (Original) The laser arbor for a saw having a spindle of claim 1 wherein the circuit further comprises a generator having a permanent magnet secured to a fixed guard and an arcuate coil section rotated by the spindle.

4. (Currently Amended) The laser arbor for a saw having a spindle of claim 1 wherein the circuit further comprises an inductively coupled power source comprising a first induction coil that is rotated by the spindle and a second induction coil that is on the non-rotating portion of the saw, and wherein power for the ~~laser light~~ is provided by the inductively coupled power source.

5. (Withdrawn) The laser arbor for a saw having a spindle of claim 1 wherein the circuit further comprises a power source electrically connected by slip ring contacts that establish electrical contact between the power source and the circuit, wherein the slip ring contacts comprise a first set of contacts that rotate with the saw blade and a second set of contacts that are stationary which contact the first set of contacts.

6. (Original) The laser arbor for a saw having a spindle of claim 1 wherein the circuit further comprises a power conditioning circuit that provides power within a predetermined voltage range to the laser.

7. (Original) The laser arbor for a saw having a spindle of claim 1 wherein a fixed guard is part of the non-rotating portion of the saw.

8. (Currently Amended) A saw comprising:
a motor having a spindle;
a blade secured to the spindle and rotated by the motor to cut a workpiece;
a laser arbor having a housing secured to the spindle for rotation with the blade;

a light source disposed in the housing, the light source emitting a narrow beam of light adjacent to the blade for providing a visual indication of the alignment of the blade with the workpiece; and

a generator electrically connected to the light source for providing power to the light source, wherein the generator includes a rotor associated with and rotated with the housing and a stator secured adjacent to the housing, the rotor being rotated by the motor relative to the stator for generating electrical power in the rotor for the light source, wherein the rotor has no electrical connections with a non-rotating portion of the saw.

9. (Original) The saw of claim 8 wherein the rotor is an electrical coil.

10. (Original) The saw of claim 9 wherein the stator is an electrical magnet.

11. (Original) The saw of claim 9 wherein the stator is a permanent magnet.

12. (Original) The saw of claim 9 wherein the rotor is electrically connected to a power conditioning circuit that provides power directly to the light source.

13. (Original) The saw of claim 8 wherein the light source is a LES laser.

14. (Withdrawn) A saw comprising:
a motor having a spindle;
a blade secured to the spindle and rotated by the motor to cut a workpiece;
a laser arbor having a housing secured to the spindle for rotation with the blade;
a light source disposed in the housing, the light source emitting a narrow beam of light adjacent the blade for providing a visual indication of the alignment of the blade with the workpiece; and
an inductively coupled power source electrically connected to the light source, wherein the power source includes a first induction coil associated with and rotated with the housing and a second induction coil secured adjacent to the housing, the second induction coil inducing voltage in the first induction coil to provide power to the light source.

15. (Withdrawn) The saw of claim 14 wherein the rotor is electrically connected to a power conditioning circuit that provides power directly to the light source.

16. (Withdrawn) The saw of claim 14 wherein the light source is a LED.

17. (Currently Amended) A saw comprising:

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a motor having a spindle;
a blade secured to the spindle and rotated by the motor to cut a workpiece;
a laser arbor having a housing secured to the spindle for rotation with the blade;
a light source disposed in the housing, the light source emitting a narrow beam of light adjacent the blade for providing a visual indication of the alignment of the blade with the workpiece; and
a generator electrically connected to the light source for providing power produced in the spindle to the light source, the generator having a permanent magnet secured to a fixed guard and a coil rotated by the spindle, wherein the spindle has no electrical connections with a non-rotating portion of the saw.

18. (Withdrawn) A saw comprising:
a motor having a spindle;
a blade secured to the spindle and rotated by the motor to cut a workpiece;
a laser arbor having a housing secured to the spindle for rotation with the blade;
a light source disposed in the housing, the light source emitting a narrow beam of light adjacent the blade for providing a visual indication of the alignment of the blade with the workpiece; and
a power source electrically connected by a plurality of slip ring contacts that establish electrical contact with the light source, wherein the slip ring contacts comprise a set of rotating contacts that rotate with the blade and a set of fixed contacts that are stationary and are mounted on the saw to contact the first set of contacts.

19. (New) A laser arbor for a saw having a spindle that rotates a saw blade relative to a non-rotating portion of the saw comprising:
a housing secured to the spindle;
a laser disposed at least in part within the housing; and
an electric circuit for providing an electrical connection between the laser and the voltage source, wherein electric current to power the laser is generated solely

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by rotation of the spindle with no electrical connection with the non-rotating portion of the saw.